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	Application No.	Applicant(s)		
	10/018,863 ZAMZOW, BERT			
Notice of Allowability	Examiner	Art Unit		
	Edward Raymond	2857		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. $igspace$ This communication is responsive to <u>Pre-Amendment filed</u>	<u>4/9/02</u> .			
2. ⊠ The allowed claim(s) is/are <u>11-28</u> .				
3. 🔀 The drawings filed on <u>09 April 2002</u> are accepted by the Examiner.				
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant of the de	been received. been received in Application No cuments have been received in this rec	complying with the recomplying state and the state of th	quirements OTICE OF	
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment		

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 11-28 are allowed.
- The following is an examiner's statement of reasons for allowance: Wilson et al. 2. teach a method of determining the location of splices and of calculating power loss at splices in optic fibers in a cable. The prior art of record does not teach a method for determining the loss of a splice connecting two optical waveguides by executing the following steps: a) determining or describing a first spatial distribution of the refractive index (n(r)) inside a first spatial region, not influenced by the splice, of a first optical waveguide, b) determining a second spatial distribution (n(r)) of the refractive index in the region of the splice, c) deriving a first field function $(E(z_0))$ from the first spatial distribution $(n_0(r))$ of the refractive index, the first field function $(E(z_0))$ describing the spatial dependence of the electric field of a mode that can propagate in the waveguides, d) calculating a second field function ($E(z_n)$) from the first field function ($E(z_0)$) and the second spatial distribution of the refractive index (n(r)), the second field function $(E(z_n))$ describing the spatial dependence of the electric field, the mode propagating from the first spatial region via the splice, within a second spatial region, not influenced by the splice, of the second optical waveguide, e) calculating a first intensity ($I(z_0)$) and a second intensity ($I(z_n)$) from the assigned field functions (E (z_0), E (z_n)), and f) calculating the loss (L) of the splice occurring as a function of the ratio of the two intensities $(I(z_0)), I(z_n)$.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wilson et al. teach a method of determining the location of splices and of calculating power loss at splices in optic fibers in a cable. Wilde et al. teach a method and system for suppressing spurious reflections.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Raymond whose telephone number is 571-272-2221. The examiner can normally be reached on Monday through alternating Friday between 8:00 AM and 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-2221 for regular communications and 571-272-1562 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

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October 25, 2004 Edward Raymond Patent Examiner Art Unit 2857

Edward Parmind